

SEQUENCE LISTING

<110> BIO MERIEUX

<120> Method for detecting the expression of an
envelope protein of a human endogenous
retrovirus and uses of a gene coding for
said protein

<130> Fusogenic power of ERV-W [sic] Env

<140>

<141>

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 538

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Leu Pro Tyr His Ile Phe Leu Phe Thr Val Leu Leu Pro Ser
1 5 10 15

Phe Thr Leu Thr Ala Pro Pro Pro Cys Arg Cys Met Thr Ser Ser Ser
20 25 30

Pro Tyr Gln Glu Phe Leu Trp Arg Met Gln Arg Pro Gly Asn Ile Asp
35 40 45

Ala Pro Ser Tyr Arg Ser Leu Ser Lys Gly Thr Pro Thr Phe Thr Ala
50 55 60

His Thr His Met Pro Arg Asn Cys Tyr His Ser Ala Thr Leu Cys Met
65 70 75 80

His Ala Asn Thr His Tyr Trp Thr Gly Lys Met Ile Asn Pro Ser Cys
85 90 95

Pro Gly Gly Leu Gly Val Thr Val Cys Trp Thr Tyr Phe Thr Gln Thr
 100 105 110

Gly Met Ser Asp Gly Gly Gly Val Gln Asp Gln Ala Arg Glu Lys His
 115 120 125

Val Lys Glu Val Ile Ser Gln Leu Thr Arg Val His Gly Thr Ser Ser
 130 135 140

Pro Tyr Lys Gly Leu Asp Leu Ser Lys Leu His Glu Thr Leu Arg Thr
 145 150 155 160

His Thr Arg Leu Val Ser Leu Phe Asn Thr Thr Leu Thr Gly Leu His
 165 170 175

Glu Val Ser Ala Gln Asn Pro Thr Asn Cys Trp Ile Cys Leu Pro Leu
 180 185 190

Asn Phe Arg Pro Tyr Val Ser Ile Pro Val Pro Glu Gln Trp Asn Asn
 195 200 205

Phe Ser Thr Glu Ile Asn Thr Thr Ser Val Leu Val Gly Pro Leu Val
 210 215 220

Ser Asn Leu Glu Ile Thr His Thr Ser Asn Leu Thr Cys Val Lys Phe
 225 230 235 240

Ser Asn Thr Thr Tyr Thr Thr Asn Ser Gln Cys Ile Arg Trp Val Thr
 245 250 255

Pro Pro Thr Gln Ile Val Cys Leu Pro Ser Gly Ile Phe Phe Val Cys
 260 265 270

Gly Thr Ser Ala Tyr Arg Cys Leu Asn Gly Ser Ser Glu Ser Met Cys
 275 280 285

Phe Leu Ser Phe Leu Val Pro Pro Met Thr Ile Tyr Thr Glu Gln Asp
 290 295 300

Leu Tyr Ser Tyr Val Ile Ser Lys Pro Arg Asn Lys Arg Val Pro Ile
 305 310 315 320
 Leu Pro Phe Val Ile Gly Ala Gly Val Leu Gly Ala Leu Gly Thr Gly
 325 330 335
 Ile Gly Gly Ile Thr Thr Ser Thr Gln Phe Tyr Tyr Lys Leu Ser Gln
 340 345 350
 Glu Leu Asn Gly Asp Met Glu Arg Val Ala Asp Ser Leu Val Thr Leu
 355 360 365
 Gln Asp Gln Leu Asn Ser Leu Ala Ala Val Val Leu Gln Asn Arg Arg
 370 375 380
 Ala Leu Asp Leu Leu Thr Ala Glu Arg Gly Gly Thr Cys Leu Phe Leu
 385 390 395 400
 Gly Glu Glu Cys Cys Tyr Tyr Val Asn Gln Ser Gly Ile Val Thr Glu
 405 410 415
 Lys Val Lys Glu Ile Arg Asp Arg Ile Gln Arg Arg Ala Glu Glu Leu
 420 425 430
 Arg Asn Thr Gly Pro Trp Gly Leu Leu Ser Gln Trp Met Pro Trp Ile
 435 440 445
 Leu Pro Phe Leu Gly Pro Leu Ala Ala Ile Ile Leu Leu Leu Phe
 450 455 460
 Gly Pro Cys Ile Phe Asn Leu Leu Val Asn Phe Val Ser Ser Arg Ile
 465 470 475 480
 Glu Ala Val Lys Leu Gln Met Glu Pro Lys Met Gln Ser Lys Thr Lys
 485 490 495
 Ile Tyr Arg Arg Pro Leu Asp Arg Pro Ala Ser Pro Arg Ser Asp Val
 500 505 510
 Asn Asp Ile Lys Gly Thr Pro Pro Glu Glu Ile Ser Ala Ala Gln Pro

515

520

525

Leu Leu Arg Pro Asn Ser Ala Gly Ser Ser
530 535

<210> 2

<211> 2781

<212> DNA

<213> Homo sapiens

<400> 2

atgggagctg ttttcacgct atttcactct attaaatctt gcaactgcac tcttctggtc 60
catgtttctt acggctcgag ctgagctttt gctcaccgtc caccactgct gtttgccacc 120
accgcagacc tgccgctgac tcccatccct ctggatcctg caggggtgtcc gctgtgctcc 180
tgatccagcg aggcgcccac tgccgctccc aattgggcta aaggcttgcc attgttctctg 240
cacggctaag tgccctgggtt tgttctaatt gagctgaaca ctagtcaactg gggtccatgg 300
ttctcttctg tgacccacgg cttctaatag aactataaca cttaccacat ggcccaagat 360
tccattcctt ggaatccgtg aggcccaagaa ctccagggtca gagaatacga ggcttgccac 420
catcttgaa gcggcctgct accatcttgg aagtgggtca ccaccatctt gggagctctg 480
tgagcaagga cccccggta acattttggc aaccacgaac ggacatccaa agtgatacat 540
cctgggaagg accctacca gtcattttat ctaccccaac tgccggttaa gtggctggag 600
tgaggtcttg gatacatcac acttgagtca aatcctggat actgccaaag gaacctgaaa 660
atccaggaga caacgctagc tattcctgtg aacctctaga ggatttgctg ctgctcttca 720
aacaacaacc aggaggaaag taactaaaat cataaatccc catggccctc ccttatcata 780
ttttctctt tactgttctt ttacctctt tcaactctac tgcacccct ccatgccgt 840
gtatgaccag tagtcccct taccaagagt ttctatggag aatgcagcgt cccggaaata 900
ttgatgcccc atcgtatagg agtctttcta agggaaacccc cacttcaact gccacacccc 960
atatgcccc caactgctat cactctgcca ctctttgcat gcatgcaaact actcattatt 1020
ggacaggaaa aatgattaat cctagtgtg ctggaggact tggagtcaact gtctgttggg 1080
cttacttcac ccaaactgg atgtctgatg ggggtggagt tcaagatcag gcaagagaaa 1140
aacatgtaaa agaagtaac tcccaactca cccgggtaca tggcacctct agcccctaca 1200
aaggactaga tctctcaaaa ctacatgaaa ccctccgtac ccatactcgc ctggtaagcc 1260
tatttaatac caccctcact gggctccatg aggtctcggc ccaaaacct actaactgtt 1320
ggatatgcct cccctgaac ttcaggccat atgtttcaat cctgtacct gaacaatgga 1380
acaacttcag cacagaaata aacaccactt ccgttttagt aggacctctt gtttccaatc 1440
tggaataaac ccatacctca aacctcacct gtgtaaaatt tagcaatact acatacacia 1500
ccaactccca atgcatcagg tgggtaactc ctcccacaca aatagtctgc ctaccctcag 1560
gaatatctt tgtctgtggt acctcagcct atcgttgtt gaatggctct tcagaatcta 1620

tgtgcttccct ctcattctta gtgcccccta tgaccatcta cactgaacaa gatttatata 1680
 gttatgtcat atctaagccc cgcaacaaaa gagtaccat tcttcctttt gttataggag 1740
 cgggagtgtc aggtgcacta ggtactggca ttggcgggtat cacaacctct actcagttct 1800
 actacaaact atctcaagaa cttaaagggt acatggaacg ggtcgccgac tccctgggtca 1860
 ccttgcaaga tcagcttaac tccctagcag cagtagtcct tcaaaatcga agagctttag 1920
 acttgctaac cgctgaaaga gggggaacct gtttattttt aggggaagaa tgctgttatt 1980
 atgttaatca atccggaatc gtcactgaga aagttaaaga aattcgagat cgaatacaac 2040
 gtagagcaga ggagcttcga aacactggac cctggggcct cctcagccaa tggatgccct 2100
 ggattctccc cttcttagga cctctagcag ctataatatt gctactcctc tttggaccct 2160
 gtatctttaa cctccttggt aactttgtct cttccagaat cgaagctgta aaactacaaa 2220
 tggagcccaa gatgcagtc aagactaaga tctaccgcag acccctggac cggcctgcta 2280
 gccacgatac tgatgttaat gacatcaaag gcacccctcc tgaggaaatc tcagctgcac 2340
 aacctctact acgccccaat tcagcaggaa gcagttagag cggtcgtcgg ccaacctccc 2400
 caacagcact taggttttcc tgttgagatg ggggactgag agacaggact agctggattt 2460
 cctaggctga ctaagaatcc ctaagcctag ctgggaaggt gaccacatcc acctttaaac 2520
 acggggcttg caacttagct cacacctgac caatcagaga gctcactaaa atgctaatta 2580
 ggcaaagaca ggaggtaaag aaatagccaa tcatctattg cctgagagca cagcaggagg 2640
 gacaatgatac gggatataaa cccaagtctt cgagccggca acggcaaccc cctttgggtc 2700
 cctcccttt gtatgggagc tctgttttca tgctatttca ctctattaaa tcttgcaact 2760
 gcaaaaaaaaa aaaaaaaaaa a 2781